

L Number	Hits	Search Text	DB	Time stamp
1	583	342/463,458.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:13
4	2	342/463,458.ccls. and (RTD or (round adj trip adj delay) or (roundtrip adj delay)) and search	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:13
5	0	342/463,458.ccls. and (RTD or (round adj trip adj delay) or (roundtrip adj delay)) and rescue	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:13
6	5	342/463,458.ccls. and (RTD or (round adj trip adj delay) or (roundtrip adj delay)) and track\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:13
7	17	342/463,458.ccls. and ((round adj trip) or roundtrip) and search	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:13
8	3	342/463,458.ccls. and ((round adj trip) or roundtrip) and rescue	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:13
9	30	342/463,458.ccls. and ((round adj trip) or roundtrip) and track\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:13
10	86	342/463,458.ccls. and (range ranging) and search	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:13
11	11	342/463,458.ccls. and (range ranging) and rescue	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:14
12	188	342/463,458.ccls. and (range ranging) and track\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:14
13	929	342/387,457.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:13
14	12	342/387,457.ccls. and (RTD or (round adj trip adj delay) or (roundtrip adj delay)) and search	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:13

L Number	Hits	Search Text	DB	Time stamp
15	1	342/387,457.ccls. and (RTD or (round adj trip adj delay) or (roundtrip adj delay)) and rescue	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:13
16	11	342/387,457.ccls. and (RTD or (round adj trip adj delay) or (roundtrip adj delay)) and track\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:13
17	27	342/387,457.ccls. and ((round adj trip) or roundtrip) and search	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:13
18	4	342/387,457.ccls. and ((round adj trip) or roundtrip) and rescue	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:13
19	37	342/387,457.ccls. and ((round adj trip) or roundtrip) and track\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:13
20	227	342/387,457.ccls. and (range ranging) and search	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:13
21	37	342/387,457.ccls. and (range ranging) and rescue	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:14
22	375	342/387,457.ccls. and (range ranging) and track\$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:14
36	34	342/463,458.ccls. and (home homing)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:44
38	155	342/387,457.ccls. and (home homing)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 09:44

L Number	Hits	Search Text	DB	Time stamp
138	8	((342/458   342/463).CCLS.) and (RTD or (round adj trip adj delay) or (roundtrip adj delay))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 15:01
139	24	((342/457   342/387).CCLS.) and (RTD or (round adj trip adj delay) or (roundtrip adj delay))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 15:02
140	0	342/463,458,387,457.ccls. and (home adj upon)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 15:03
141	1	342/\$.ccls. and (home adj upon)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 15:04
142	4	455/\$.ccls. and (home adj upon)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 15:04

"in" and "on" are stopwords

L Number	Hits	Search Text	DB	Time stamp
171	125	342/126.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 16:29
172	8	342/126.ccls. and (home homing)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 16:29
173	19	342/126.ccls. and search	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 16:30
174	2	342/126.ccls. and rescue	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 16:30
175	0	(342/126.ccls. and (home homing)) and (342/126.ccls. and search) and (342/126.ccls. and rescue)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 16:30
177	2	(342/126.ccls. and search) and (342/126.ccls. and rescue)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 16:31
178	0	(342/126.ccls. and (home homing)) and ((342/126.ccls. and search) and (342/126.ccls. and rescue))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 16:31
179	4	(342/126.ccls. and (home homing)) and (342/126.ccls. and search)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 16:31

L Number	Hits	Search Text	DB	Time stamp
199	152	(search and rescue and 342/\$.cls.) not 342/357\$.cls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 16:54

L Number	Hits	Search Text	DB	Time stamp
11	200	342/47-49.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 17:37
12	3	342/47-49.ccls. and (home or homing)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 17:36
13	49	342/47-49.ccls. and search	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 17:36
14	4	342/47-49.ccls. and rescue	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 17:36
15	4	(342/47-49.ccls. and search ) and (342/47-49.ccls. and rescue)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/25 17:37

L Number	Hits	Search Text	DB	Time stamp
33	751	340/825.49.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/26 16:41
32	91	340/7.5.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/26 16:41
34	15	340/7.5.ccls. and (home or homing)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/26 16:49
35	202	340/825.49.ccls. and (home or homing)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/26 16:49
36	22	340/825.49.ccls. and homing	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/26 16:49

L Number	Hits	Search Text	DB	Time stamp
2	8	342/\$.ccls. and SART	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/28 14:22
4	8	(342/\$.ccls. and SART) and (time distance range ranging RTD (round adj trip adj delay))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/28 14:22
5	0	(342/\$.ccls. and SART) and (home homing)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/28 14:16
8	24	SART and transponder	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/28 14:23
9	10	(SART and transponder) and (distance range ranging RTD (round adj trip adj delay))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/28 14:23



L Number	Hits	Search Text	DB	Time stamp
12	1	"search and rescue transponder"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/08 17:15
13	4	search adj rescue adj transponder	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/08 17:24
17	254	SART	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/08 17:24
21	0	(SART with (distance range)) and (SART with processor)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/08 17:24
20	4	SART with processor	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/08 17:25
18	7	SART with (distance range)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/08 17:25

L Number	Hits	Search Text	DB	Time stamp
18	17	search adj rescue with (phone telephone)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/10 11:13
19	8	search adj rescue with (cloths clothing)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/10 11:13

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7	INZZ	home OR homing	unrestricted	22217	<a href="#">show titles</a>
8	INZZ	1 AND 2 AND 7	unrestricted	0	-
9	INZZ	1 AND 3 AND 7	unrestricted	0	-
10	INZZ	1 AND 7	unrestricted	0	-
11	INZZ	B63.cn.	unrestricted	66942	<a href="#">show titles</a>
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3	EEDD	2 AND 1	2	<a href="#">show titles</a>
4	EEDD	2 AND '342'.CN.	6	<a href="#">show titles</a>

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**INSPEC - 1969 to date (INZZ)**

### Accession number & update

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Search and rescue transponders.

### Author(s)

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### Author affiliation

SARTECH, Lower Kingswood, UK.

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### Abstract

The author presents an overview of the application of UHF and microwave technology to search and rescue. Automatic alerting and positioning of ships and aircraft in distress has been in use since the early 1980s with the development of the COSPAS-SARSAT satellite aided distress system. Final **location** has been by dedicated search and rescue resources, using direction finding equipment to **home** on VHF transmitters. The development of miniaturised, low cost radar transponders has made it possible for any ship to use its radar to **home** on survival craft. Further development could provide a viable product for use on lifejackets to aid **location** in man overboard situations. (5 refs).

### Descriptors

emergency-services; radar-applications; radar-equipment; transponders.

### Keywords

UHF technology; miniaturised transponders; microwave technology; search and rescue; ships; aircraft; COSPAS SARSAT satellite aided distress system; radar transponders; survival craft; lifejackets; man overboard situations.

### Classification codes

B6320 (Radar equipment, systems and applications).

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